

6. The method of claim 1, wherein the indicating the part of the resource to use comprises indicating different parts of the same resource to multiple devices.

7. The method of claim 1, further comprising:
adjusting a periodicity of the resource by allocating partial resources.

8. The method of claim 1, further comprising:
activating or deactivating an allocation of the resource using at least one of an information element, a medium access control command, or radio resource control signaling.

9. The method of claim 1, further comprising:
activating or deactivating the resource using at least one of an information element, a medium access control command or radio resource control signaling.

10. The method of claim 8, wherein the deactivating the allocation of the resource comprises forcing a time alignment timer to expire.

11. The method of claim 1, further comprising:
detecting a change in at least one of network load or traffic status of a device of the one or more devices; and
adjusting the resource to use for a device of the one or more devices based on the change.

12. The method of claim 1, further comprising:
time division multiplexing multiple devices on the same physical uplink control channel resource.

13. An apparatus, comprising:
at least one processor; and
at least one memory including computer program code,
wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to
configure, with radio resource control signaling, a physical uplink control channel resource to one or more devices;
and
indicate to each device of the one or more devices, which part of the resource to use.

14. The apparatus of claim 13, wherein the resource comprises at least one of a channel quality indicator resource or a scheduling request resource.

15. The apparatus of claim 13, wherein the resource comprises at least one of an acknowledgment/negative acknowledgment resource, a precoding matrix indicator resource and a rank indication resource.

16. The apparatus of claim 13, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to indicate the part of the resource to use with a control information element, such as a medium access control information element.

17. The apparatus of claim 13, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to indicate the part of the resource to use by indicating an alternating even or odd half of the resource, a quarter of the resource, or full use of the resource.

18. The apparatus of claim 13, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to indicate the part of the resource to use by indicating different parts of the same resource to multiple devices.

19. The apparatus of claim 13, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to adjust a periodicity of the resource by allocating partial resources.

20. The apparatus of claim 13, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to activate or deactivate an allocation of the resource using at least one of an information element, a medium access control command, or radio resource control signaling.

21. The apparatus of claim 13, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to activate or deactivate the resource using at least one of an information element, a medium access control command or radio resource control signaling.

22. The apparatus of claim 20, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to deactivate the allocation of the resource by forcing a time alignment timer to expire.

23. The apparatus of claim 13, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to detect a change in at least one of network load or traffic status of a device of the one or more devices, and to adjust the resource to use for a device of the one or more devices based on the change.

24. The apparatus of claim 13, wherein the at least one memory and the computer program code are configured to, with the at least one processor, cause the apparatus at least to time division multiplex multiple devices on the same physical uplink control channel resource.

25-36. (canceled)

37. A non-transitory computer readable medium encoded with instructions that, when executed in hardware, perform a process, wherein the process comprises the method according to claim 1.

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